

AQUAREA H GENERATION HIGH PERFORMANCE BI-BLOC SINGLE PHASE / THREE PHASE. HEATING AND COOLING - SDC

The new H Generation are specially designed for low energy homes and achieve an impressive COP of 5 (on the 3.2kW).

Thanks to the system's high degree of technology and advanced control, it is able to maintain a high capacity and efficiency even at -7°C and -15°C. The Aquarea's software is optimised to the requirements of low consumption homes in order to maximise energy efficiency. Whatever the weather, Aquarea can work even at -20°C. The compact design of the outdoor unit makes installation very easy.

Technical focus

- **NEW!** Touch Controller
- **NEW!** Indoor Unit
- Super efficient: COP of 5 in the 3.2kW!
- Very high energy savings A+++ (*)
- Simple installation & maintenance
- Special software for low consumption homes with minimum output temperature: 20°C
- Works at temperatures as low as -20°C
- Automatic Air purge valve
- Display of the compressor frequency



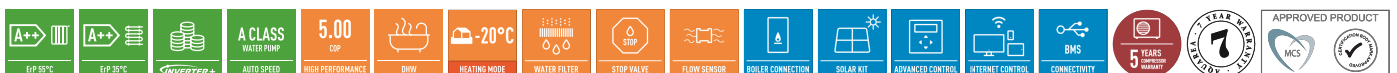
Kit	Single Phase Heating and Cooling						Three Phase (Power to indoor)			
	KIT-WC03H3E5	KIT-WC05H3E5	KIT-WC07H3E5	KIT-WC09H3E5	KIT-WC012H6E5	KIT-WC016H6E5	KIT-WC09H3E8	KIT-WC12H9E8	KIT-WC16H9E8	
Heating capacity at +7°C (heating water at 35°C)	kW	3.20	5.00	7.00	9.00	12.00	16.00	9.00	12.00	16.00
COP at +7°C (heating water at 35°C)	W/W	5.00	4.63	4.46	4.13	4.74	4.28	4.84	4.74	4.28
Heating capacity at +2°C (heating water at 35°C)	kW	3.20	4.20	6.55	6.70	11.40	13.00	9.00	11.40	13.00
COP at +2°C (heating water at 35°C)	W/W	3.56	3.11	3.34	3.13	3.44	3.28	3.59	3.44	3.28
Heating capacity at -7°C (heating water at 35°C)	kW	3.20	4.20	5.15	5.90	10.00	11.40	9.00	10.00	11.40
COP at -7°C (heating water at 35°C)	W/W	2.69	2.59	2.68	2.52	2.73	2.57	2.85	2.73	2.57
Cooling capacity at 35°C (cooling water at 7/12°C)	kW	3.20	4.50	6.00	7.00	10.00	12.20	7.00	10.00	12.20
EER at 35°C (cooling water at 7/12°C)	W/W	3.08	2.69	2.63	2.43	2.81	2.56	3.17	2.81	2.56
Energy Efficiency Class at 35°C / 55°C		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A++	A++	A++
System label 35°C / 55°C ¹		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Indoor Unit		WH-SDC03H3E5-1	WH-SDC05H3E5-1	WH-SDC07H3E5-1	WH-SDC09H3E5-1	WH-SDC12H6E5	WH-SDC16H6E5	WH-SDC09H3E8	WH-SDC12H9E8	WH-SDC16H9E8
Sound pressure	Heating / Cooling	dB(A)		28 / 28	28 / 28	30 / 30	30 / 30	33 / 33	33 / 33	33 / 33
Dimensions / Weight	H x W x D	mm / kg		892 x 500 x 340 / 44	892 x 500 x 340 / 44	892 x 500 x 340 / 44	892 x 500 x 340 / 44	892 x 500 x 340 / 45	892 x 500 x 340 / 45	892 x 500 x 340 / 45
Water pipe connector		mm		R 1 1/4	R 1 1/4	R 1 1/4	R 1 1/4	R 1 1/4	R 1 1/4	R 1 1/4
A class pump	Number of speeds	Variable Speed		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min / Max)	W		30 / 100	33 / 106	34 / 114	40 / 120	34 / 110	30 / 105	32 / 102
Heating water flow (ΔT=5 K, 35°C)	L/min	9.2		14.3	20.1	25.8	34.4	45.9	25.8	34.4
Capacity of integrated electric heater	kW	3		3	3	6	6	3	9	9
Recommended fuse	A	15 / 30		15 / 30	15 / 30	15 / 30	30 / 30	30 / 30	15 / 30	15 / 30
Recommended cable size, supply 1 & 2	mm ²	3 x 1.5 / 3 x 1.5		3 x 1.5 / 3 x 1.5	3 x 1.5 / 3 x 1.5	3 x 1.5 / 3 x 1.5	3 x 4.0 or 6.0 / 3 x 4.0	3 x 1.5 / 3 x 1.5	3 x 1.5 / 3 x 1.5	3 x 1.5 / 3 x 1.5
Outdoor Unit		WH-UD03HE5-1	WH-UD05HE5-1	WH-UD07HE5-1	WH-UD09HE5-1	WH-UD12HE5	WH-UD16HE5	WH-UD09HE8	WH-UD12HE8	WH-UD16HE8
Sound pressure	Heating / Cooling	dB(A)		47 / 47	48 / 48	50 / 48	51 / 50	52 / 50	55 / 54	51 / 49
Dimensions / Weight	H x W x D	mm / kg		622 x 824 x 298 / 39	622 x 824 x 298 / 39	795 x 900 x 320 / 66	795 x 900 x 320 / 66	1340 x 900 x 320 / 101	1340 x 900 x 320 / 101	1340 x 900 x 320 / 107
Refrigerant (R410A)	kg / TCO ₂ Eq.	1.20 / -		1.20 / -	1.45 / -	1.45 / -	2.55 / -	2.55 / -	2.55 / -	2.55 / -
Pipe diameter	Liquid / Gas	Inch (mm)		1/4 (6.35) / 1/2 (12.7)	1/4 (6.35) / 1/2 (12.7)	1/4 (6.35) / 5/8 (15.88)	1/4 (6.35) / 5/8 (15.88)	3/8 (9.52) / 5/8 (15.88)	3/8 (9.52) / 5/8 (15.88)	3/8 (9.52) / 5/8 (15.88)
Pipe length range / Elevation difference (in/out)	m	3 - 15 / 5		3 - 15 / 5	3 - 30 / 20	3 - 30 / 20	3 - 30 / 20	3 - 30 / 20	3 - 30 / 20	3 - 30 / 20
Pipe length for additional gas / Additional gas amount	m / g/m	10 / 20		10 / 20	10 / 30	10 / 30	10 / 50	10 / 50	10 / 50	10 / 50
Operation range	Outdoor ambient	°C		-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heating / Cooling	°C		20 - 55 / 5 - 20	20 - 55 / 5 - 20	25 - 55 / 5 - 20	25 - 55 / 5 - 20	25 - 55 / 5 - 20	25 - 55 / 5 - 20	25 - 55 / 5 - 20

Accessories	
PAW-TE18E3STD-UK	180L Standard Heat Pump Tank
PAW-TE30E3STD-UK	300L Standard Heat Pump Tank
PAW-TE18C2E3STD-UK	180L Standard Twin coil Heat Pump Tank
PAW-TE30C2E3STD-UK	300L Standard Twin coil Heat Pump Tank
CZ-TK1	Temperature sensor for 3rd party tank

Accessories	
CZ-NV1	3 way valve Kit for inside of hydrokit
CZ-NS4P	Additional functions PCB
PAW-BTANK50L	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud, H Generation Internet control through Wifi or wired LAN
PAW-A2W-RTWIRED	Room thermostat

COP classification is at 230V only in accordance with EU directive 2003/32/EC. Sound pressure measured at 1m from the outdoor unit and at 1.5m height. Performance in agreement with EN14511.

Remark to energy efficiency class: These indications are based on the official ErP regulations (EU regulations N° 811/2013, EN 14511 and EN 14825) for heat pumps, which is officially binding from September 2015. Efficiency classes marked with * would meet the new regulations from September 2019 to a classification as A+++.



INTERNET CONTROL: Optional. 5 YEARS COMPRESSOR WARRANTY and EXTENDED 7 YEARS COST OPTION: Exclusively for PRO Partners. MCS APPROVED PRODUCT: For full MCS approved product list please go to www.microgenerationcertification.org/consumers or www.aircon.panasonic.co.uk/CB_en/downloads/others.